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TPP1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP17047a

Specification

TPP1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O14773

TPP1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 1200

Other Names
Tripeptidyl-peptidase 1, TPP-1, Cell growth-inhibiting gene 1 protein, Lysosomal pepstatin-insensitive protease, LPIC, Tripeptidyl aminopeptidase, Tripeptidyl-peptidase I, TPP-I, TPP1, CLN2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TPP1 Antibody (N-term) Blocking Peptide - Protein Information

Name TPP1

Synonyms CLN2

Function
Lysosomal serine protease with tripeptidyl-peptidase I activity (PubMed:11054422, PubMed:19038966, PubMed:19038967). May act as a non-specific lysosomal peptidase which generates tripeptides from the breakdown products produced by lysosomal proteinases (PubMed:11054422, PubMed:19038966, PubMed:19038967). Requires substrates with an unsubstituted N-terminus (PubMed:19038966).

Cellular Location
Lysosome. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

Tissue Location
Detected in all tissues examined with highest levels in heart and placenta and relatively similar levels in other tissues

TPP1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

TPP1 Antibody (N-term) Blocking Peptide - Images

TPP1 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the sedolisin family ofserine proteases. The protease functions in the lysosome to cleaveN-terminal tripeptides from substrates, and has weakerendopeptidase activity. It is synthesized as acatalytically-inactive enzyme which is activated andauto-proteolyzed upon acidification. Mutations in this gene resultin late-infantile neuronal ceroid lipofuscinosis, which isassociated with the failure to degrade specific neuropeptides and asubunit of ATP synthase in the lysosome.

TPP1 Antibody (N-term) Blocking Peptide - References

Souweidane, M.M., et al. J Neurosurg Pediatr 6(2):115-122(2010)Walus, M., et al. Hum. Mutat. 31(6):710-721(2010)Latrick, C.M., et al. EMBO J. 29(5):924-933(2010)Kuizon, S., et al. PLoS ONE 5 (8), E11929 (2010) :Goldberg-Stern, H., et al. Pediatr. Neurol. 41(4):297-300(2009)